

## GREEN RIVER BASIN

1

09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°29'36", long 110°34'39", in SE<sup>1/4</sup>NW<sup>1/4</sup>SW<sup>1/4</sup> sec. 9, T. 1 N., R. 6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on right bank at Lower Stillwater damsite "B", 0.1 mi upstream from Corral Creek, 6.8 mi downstream from South Fork, and 11.9 mi northwest of Mountain Home.

DRAINAGE AREA.--147 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1937 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area, WDR UT-95-1; 1994.

GAGE.--Water-stage recorder. Elevation of gage is 7,250 ft above NGVD of 1929, from river-profile map. Prior to April 12, 1939, nonrecording gage at site 300 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow partially regulated by Upper Stillwater Reservoir 8 mi upstream, beginning November 3, 1987. Total capacity, 32,000 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft<sup>3</sup>/s, Jun 18, 1971, gage height, 5.98 ft; maximum gage height, 6.26 ft, Jun 4, 1986, from floodmarks; minimum recorded, 3.9 ft<sup>3</sup>/s, Feb 20, 2004 (probably caused by ice jams above station).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 79 ft<sup>3</sup>/s, Aug 22, gage height, 2.18 ft; minimum discharge, 3.9 ft<sup>3</sup>/s, Feb. 20.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	43	40	e40	36	41	44	42	45	48	44	43
2	53	38	39	40	40	39	48	43	49	47	48	43
3	54	39	39	39	39	39	45	43	61	48	59	44
4	52	37	39	35	39	39	44	43	57	49	58	47
5	51	37	37	38	39	38	45	44	56	48	59	45
6	50	36	38	39	36	39	45	45	56	46	61	44
7	50	37	39	43	37	40	45	46	56	46	61	44
8	49	37	36	42	39	42	45	46	53	46	60	44
9	49	37	46	41	38	44	44	46	46	46	60	44
10	48	38	38	41	39	45	43	46	48	45	60	44
11	46	37	38	40	38	44	42	46	47	45	61	43
12	46	35	37	40	38	44	40	47	48	45	64	44
13	46	38	38	40	39	45	39	46	47	48	72	47
14	45	38	39	41	40	46	39	46	46	61	72	45
15	46	37	38	41	39	47	39	46	46	63	71	44
16	46	38	41	41	39	47	39	46	47	65	72	43
17	46	38	38	38	40	48	39	46	52	68	75	44
18	45	38	39	38	40	49	39	46	55	67	75	44
19	45	38	40	40	39	51	38	46	50	64	74	48
20	45	38	40	39	39	53	38	47	48	63	74	48
21	44	37	40	37	39	53	38	47	49	62	74	46
22	44	34	38	37	39	55	38	47	48	62	75	45
23	44	31	38	39	40	52	37	47	47	66	68	45
24	43	33	41	39	39	49	37	47	48	50	47	45
25	42	36	40	37	39	49	37	46	51	48	46	45
26	42	37	40	36	40	47	36	46	52	48	45	44
27	43	35	e40	38	40	44	36	46	51	48	45	44
28	42	36	e40	39	41	44	37	46	50	46	44	44
29	42	38	e40	39	38	43	41	46	50	45	43	48
30	43	40	e40	39	---	43	41	45	50	45	43	46
31	44	---	e40	36	---	43	---	45	---	44	43	---
TOTAL	1,433	1,111	1,216	1,212	1,128	1,402	1,218	1,414	1,509	1,622	1,853	1,344
MEAN	46.2	37.0	39.2	39.1	38.9	45.2	40.6	45.6	50.3	52.3	59.8	44.8
MAX	54	43	46	43	41	55	48	47	61	68	75	48
MIN	42	31	36	35	36	38	36	42	45	44	43	43
AC-FT	2,840	2,200	2,410	2,400	2,240	2,780	2,420	2,800	2,990	3,220	3,680	2,670

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2004, BY WATER YEAR (WY)

MEAN	55.6	51.9	49.3	46.8	46.5	49.4	48.8	109	214	171	87.0	72.5
(WY)	(1998)	(1998)	(1998)	(1998)	(1998)	(1998)	(1998)	(1999)	(1997)	(1999)	(1998)	(1999)
MAX	133	135	137	123	111	116	111	431	743	599	241	253
(WY)	(1990)	(1990)	(1991)	(1991)	(1988)	(1988)	(1988)	(1995)	(1992)	(1992)	(1991)	(1993)
MIN	32.0	30.2	29.5	27.3	29.0	29.9	33.5	41.3	43.7	44.0	41.8	38.4
(WY)	(1990)	(1990)	(1991)	(1991)	(1988)	(1988)	(1995)	(1992)	(1992)	(1991)	(1991)	(1993)

## GREEN RIVER BASIN

09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1988 - 2004
ANNUAL TOTAL	17,362	16,462	
ANNUAL MEAN	47.6	45.0	
HIGHEST ANNUAL MEAN			83.5
LOWEST ANNUAL MEAN			212
HIGHEST DAILY MEAN	80	Jul 19	1999
LOWEST DAILY MEAN	31	Nov 23	1992
ANNUAL SEVEN-DAY MINIMUM	34	Jan 12	1,310
ANNUAL RUNOFF (AC-FT)	34,440	32,650	Jul 1, 1998
10 PERCENT EXCEEDS	64	55	22
50 PERCENT EXCEEDS	44	44	Dec 1, 1991
90 PERCENT EXCEEDS	37	38	26
			60,510
			138
			46
			33

e Estimated

